## It Is Claimed:

- 1. A composition comprising:
- a biologically compatible material and a peptide carried by the material, the peptide having enhanced cell binding with respect to collagen, the peptide having a domain that mimics/collagen binding to cells, said domain including at least -Ile-Ala- folded in a  $\beta$ -bend at physiologic conditions.
- 2. The composition as in claim 1 wherein the peptide is an amount effective to inhibit cell growth.
- 3. The composition as in claim 1 wherein the peptide is in an amount effective to promote cell attachment, and the material is adapted for tissue repair or tissue reconstruction.
- 4. The composition as in claim 3 wherein the material includes an apatite-based ceramic.
- 5. The composition as in claim 1 or 3 wherein the material includes a hydrogel.
- 6. The composition as in claim 1 or 3 wherein the material is in the form of polymer fibers.
- 7. The composite as in claim 1 or 3 wherein at least part of the material is a soluble polymer matrix or is a hydrogel matrix and the peptide is in a concentration of greater than about 50  $\mu$ g/ml.
- 8. The composite as in claim 1 wherein the peptide is covalently bound to the material.

9. The composite as in claim 8 wherein the material is in the form of fibers with interstices formed between fibers.

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